## ThePublicHealthGrandRounds-Bioterrorism CDC/PHTN/UNCSchoolofPublicHealth QuestionsAnsweredontheAir June11,1999

## **ProgramStatistics:**

Almost400locations.

- Justunder1500registeredparticipants.
- All50states...theNationalGuard...Canada...
- Estimatedtotalaudiencebetween4000-5000viewers.
- 1. **FaxfromNewYork-** Tularemia,plague,andbotulismarealldiseasesthatnaturally occurwithintheU.S.Howwouldwedifferentiateabioterrorismeventfromanaturally occurringcase? **ResponsebyDr.Lillibridge-** "Itgetsbacktothebasicsinpublic healthpreparedness.Therewillbecertainplanningaspectsthatweneedtodoatthe locallevel,totieinourpublichealthofficers,tohavearobustsurveillanceprogram,and aplanforprocessinglabsamples.Butmostofall,itisknowingwhotonotifyearlyina possibleevent,whichincludesnotifyinglawenforcementofficials,butfirstand foremost,yourlocalpublichealthauthorities."
- 2. **FaxfromOregon-** Whatisyourrecommendationconcerningimmunizationfor healthcareworkersforsmallpox,anthrax,andplague? **ResponsebyDr.Koplan-** "We have existing immunization recommendations for healthcareworkers, and until some further recommendations are made, these remain the diseases of greatestrisk. Whether it is he patitis Borinfluenza every year, as well as other routine immunizations, these are the immunizations that healthcare workers should continue to obtain."
- 3. FaxfromCalifornia- Howwouldyouenvisionthatastatehealthdepartmentwould communicateabioterrorismeventtotheirlocalhealthdepartments? Howwould that informationflow? ResponsebyDr.Tilson-"Wellthatisbothaverveasyquestionand averytoughone. At the easiest level the answer is quickly, clearly, and in away that the localhealthdepartmentcanusetheinformationtodevelopalocalresponse.Remember thatifaneventhappensinonetowninastate, for example, it is quitelikely that the news mediawillpickupthateventandwanttoknowwhattherelevanceisfortheir community. Sothereneeds to be some clear suggestions about how to responding very community. These condthought is more complex and trouble some. We need to do a lot betterjobofbeingsurethateveryhealthdepartmentinourcountryhasitsowncomputer capacitysothatitcanhaveonlineinformationavailableandaccesstonational information. Asyouknow, there are many health departments in the country to day which still have very limited computer capacity, used perhaps for billing and accounting purposes; butthis is not the needed national telecommunications access to which I am referring."
- 4. **CallerfromPennsylvania-** Whatarethegeneralguidelinesforhowacommunity shouldbepreparedforabioterrorismevent? **ResponsebyDr.Lillibridge-** "Oneofthe concernsthatwehaveinthisyear'splanninggrantsgoingouttostates, isaddressingthe

issueoftyinginthepublichealthcommunitywiththeoveralldisasterresponse communitythatisactiveatthestateandlocallevel.Ithinktherearefourcomponentsof anyplanningthatneedtocometotheforefrontifwearegoingtohaveaneffective responsetoalarge-scaleepidemic.Theseincludeplanningforthetransferoflab samples,achain-of-custody,andamechanismtogetthoseforwardedupthroughyour countytoyourstatesystemandthenultimatelylinkedintothefederalsystem.Thesame goesforsurveillanceandtheflowofinformation.AndIthinkthefourthissuethathas beenunderdevelopedatthelocallevelforhealthrespondershasbeenactiveparticipation indisasterdrillsthatincludecontingenciesforepidemicsandcatastrophicepidemicsthat mightbecausedbybioterrorism."

- 5. **CallerfromKentucky-** Wearesituatedinaveryremotearea. Whoshouldwecontact first? **ResponsebyDr.Lillibridge-** "Itisimportant,likeanythreat,tonotifylocallaw enforcementofficials. Itisalsocriticaltobeginachainofnotificationatthelocallevel thatbringsinthelocalhealthauthorities, sothatacascadecanmoveupthroughthestate andultimatelybacktothefederalhealthsectorinaresponse. This will bringgood information and will ensure that the health community is part of the overall discussion, planning, and response. Health is sue smust be reflected as a response ultimately moves through the recovery process as the community responds."
- 6. Faxfromalocalhealthdepartment-Whyshouldwestopwhatwearedoingtodeal withthis? Given the current challenges facing local health departments all around the countryandinfrastructureneeds, howdoweset priorities? What dowe have to stop ResponsebyDr.Koplandoingtomakethispossible? "First, weas a public health community, whether it befeder alorst a teorlocal, must deal with this together. And thereisnowayofknowingwhichofourcommunitiesitisgoingtobein. Itisnot necessarilygoingtobeinalargecoastalcity. It can be in the interior of the country or a mediumorsmallplace. Most of the things we need to do for bioterrorism are items that willbenefitusintheotherthingswedoinourotherpublichealthactivities. There are communicationskills, the computing capability, and the improved epidemiologicand surveillancecapabilities which are things we need on a daily basis, whether it be emerginginfectionsorchronicdiseasesorinjurycontrol. Sowearereally beefing upour capabilities by using the bioterrorism threattogain capabilities, skills, equipment, and trainingthatweotherwisewouldnotbeabletogetandweneedforourdailyactivities." 2<sup>nd</sup>ResponsebyDr.Tilson-"Inadditiontothat, one of the less ons I drew from In diana polisis that this is an excellent opportunity for you, with very limited additionalwork, to reach out to community partners who are interested and can help you in bioterrorismresponsesandotheremergencyresponses."
- 7. **CallfromveterinariansinMaryland-** Howdowelookattheveterinaryaspectand howarewelookingtolinkthehumanconcernsandveterinaryconcerns?Also,isthere aninfrastructurethatwearelookingtolinkwith? **ResponsebyDr.Lillibridge-** "We areactivelyworkingwithourpartnersintheFDAandtheUSDAtotalkaboutfoodand veterinarylivestockissuesandotherissuesrelatedtoagriculture.Second,through CSTE,groupshavebeenveryactiveintryingtogetotherissuesofsurveillancerelatedto veterinarydiseaseswhichmayalsobeofgreatconcerntobioterrorism.Thoseissuesare

- movingthroughtheplanningprocess. The third tier is that it is becoming increasingly clear at community levels that preparedness for these issues may be a simportant as some of the issue sinpublic health for humans."
- 8. CallfromveterinariansinMaryland- TheU.S.isbecomingveryregionalizedinits foodproduction,bothinstandardagricultureaswellasmeatsandpoultry.Ithinkthere needstobeanintegrationwiththeveterinaryplanningprocessbecausetheseare potentiallyhighrisktargets.Howdoyouenvisionpreparationandprotectioninthat arena? ResponsebyDr.Lillibridge- "First,Itotallyagree.AndIwouldhatetospeak fortheotheragenciesintheplanningprocess,butthesegroupshaveactiveplanning processesintermsofepidemiologicresponse,follow-upteams,andahostofregulatory andlegislativeissuesthattheylookatandhavegreatconcernfor.Ithinkfromour standpointasthepublichealthpractitioneratthelocallevel,staytuned,becauseitisa bigissue.Aswecompleteourlocalplanningconcepts,Ithinkthisconcernwillfinally mergewiththefederalinitiativesthatarecomingfromthetopdown."
- 9. CallfromveterinariansinMaryland- Whatlessonshavewelearnedfromtheanthrax releasethatoccurredintheSovietUnionseveralyearsagoandcanweextrapolatethose andusetheminourcurrentplanningprocesses? ResponsebyDr.Lillibridge- "Oneof thethingswelearnedfromthereleaseofanthraxinSverdlovskintheearly1970swas thatwhiletherewasgreatconcernthattherapiesandplanningallneededtobeonsitein thefirst24hours,andthisseemedlikeameasurethatwouldbetoughtorespondto,it becameclearthatcasualtiesuptosevendaysstillrepresentedareasonableresponsetime. Thisgaveusmoreimpetustohavegoodplanning,goodstockpileplans,andan integratedclinical-publichealth-EMSplanthatcouldrespondtothesekindofevents.I thinkthatwasthebiggesttake-awaymessageforme."
- 10. **FaxfromNorthCarolina-** Arethereguidelinestohelpdevelopplansforstateandlocal agencies? Whatwouldbeagoodresourcetoobtainquickidentificationforabiologic agent? **ResponsefromDr.Tilson-** "Thereisnotanysinglebestsite. The CDC is going to be putting alotmore information on its website as well as otherwebsites will be developing. One of myfavorites sources is the History of Medicinebook published by the National Academy of Sciences called <u>Chemical and Biological Terrorism: Research and Development to Improve Civilian Medical Response</u>. It gives you so metips about how to organize locally as well as some basic medical and biological information, which I think every one working in publiche althought to know."
- 11. **CallerfromKentucky-** TheCDC'sprogramdealingwithinfectiousagentswas broadenedtoincludeselectagentssuchaspeptidetoxins. Sincethelattergroupisnot biologicalandnoteasilyadministeredorpropagated, whyweresuchchemicalentities treatedinaregulatorymannercomparabletoinfectioussources, and will other compounds, including standardresearchorganic chemical sthatareor can be toxin, also be subjected to similar regulations? **Response by Dr. Koplan-** "Ithink the whole is sue about 'selectagents' is being worked out now. We do not have answers to all the seyet. The rear regulatory components to this and it is under active discussion both within government and within a cademia."

- 12. **CallerfromNorthCarolina-** Myquestionrelatestoyourcommentswithregardto storageandhandlingofvaccines. WhatistheCDC'splaninregardtopotencytesting forvaccineswhichhavebeenstoredformanyyears? **ResponsebyDr.Lillibridge-** "I cannotcommentontheArmy'scomponentbuttheFDAischeckingtheefficacyof certainvaccines. OurplansinFY99aretobuildthetherapeuticcomponentofthe stockpileandtolookatexpandingthatstockpile."
- 13. FaxfromtheTexasDepartmentofHealth-WhatstepsarebeingtakenwithinCDCto coordinatebioterrorismeffortswithlawenforcementagencies(liketheFBI)?Howdo voubridgethehealthsectorandthelawenforcementsector? ResponsebyDr.Koplan-"AllthediscussionswearehavingcurrentlywithinCDC, withbroaderaspects withother healthagencies with the department, also include to a very strong degree law and security agencies. They are taking a leadrole in many components of this. A meeting does not 2<sup>nd</sup>Response gobythatthereisnotamixtureofhealthofficialsandsecuritypeople." **byDr.Lillibridge-** "Oneoftheissuesthatwefoundoverthepastsixmonthsindealing withanumberofhoaxesisthatinvolvementwiththelawenforcementcommunityhas been critical indealing with certain components of the overall bioterrorism response. We foundgoodinformationintermsoflabcollaboration, and some of the information on processingandearlynotificationaspartoftheresponsehasbeencriticalinjoiningthese twocommunities."
- 14. **FaxfromtheStateofMassachusetts-** Whatarethebiologicalagentsweshouldbe concernedwith? **ResponsebyDr.Tilson-** "Everyagent...becausethewholeideaof terrorismisthatoneisconfrontedwiththeunknownandtheuncertain.Ofcourse,we muststudymajoragentslikeanthraxandbotulism,butbeyondthatthejobofthelocal publichealthapparatusistobepreparedforanything.Haveasensitivesurveillance systemandahighindexofsuspicionwhenanindividualcasecomesup.Thenotionisto findpartners,confirmthediagnosis,containthethreat,andthenproceed."
- 15. FaxfromtheMarylandDepartmentofHealth- Intheareaofbioterrorism, whatdo youseeasthemajortrainingneedsoflocalhealthdepartments? ResponsebyDr. Roper- "Clearlytheyneedtogenerallybetrainedintheareaofepidemiologyand epidemicinvestigation. Secondly, the whole information infrastructure has training needs attached to it, and working out the details of tying the information systematthe localle velto the state and other partners is important." 2nd Response by Dr. Tilson- "One of the nicest contributions that the team in Indiana polismade was communication skills, particularly media communications and public information and understanding. Public understanding was about what this threat might romight not be and what an individual should do. So I would add media relations and communication sto the training."
- 16. **CallfromapubliclabinVermont-** Ifwehavesomethinginthelab(abiologicagent) andwesuspectittoberelatedtobioterrorism,whodowecontact? **ResponsebyDr. Lillibridge-** "Atthelocallevel,ifalaboratoryhasquestionsaboutlabsafetyoralab issue,Iwouldencouragefolkstofirstmovethroughtheirlocal-statepublichealthsystem

...firstatthecountylevelandthenatthestatelevel.Moststateshaveastatepublic healthlabsystemanditseemstobevery,veryimportantinaresponse,particularlyif youaregoingtoinvolvefederalpeople,thatthosecomponentsbeengagedbeforewe giveadvicethatmaybeconflictingorconfusinginthemiddleofanemergency.Andthe thirdtier,ofcourse,isfederalassistancefromagenciessuchastheCDCorthemilitary, andthesewouldallbeacceptableavenues."

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- 1. Callinfromadirectorofahospital(clinical)lab- Youdiscussedenhancingpublic healthlabsforidentifyingthreatagents. However, peoplewhoareexposedorinfected duringthereleaseofanagentwillbecomingtohospitalERs. Howdoyouenvisionthe lab'sorhospital'soverallresponsetoabioterrorismevent? Response- "Hospitallabs willbecriticalforrapidlymakingalaboratorydiagnosisorconfirmingaclinical diagnosisthatbioterrorismhasoccurredinacommunity. Allhospitallabswillbe integratedintoanationalresponselaboratorynetworkforbioterrorismataclass-A designation. Trainingcourses are currently being given nation wide for the selabs. Please contact the National Laboratory Training Network (NLTN) in your region for more information."
- 2. **FaxfromalocalhealthdepartmenttoDr.Lillibridge** WhoatthelocallevelshouldI notifyifIsuspectthatanactofbioterrorismhastakenplace? **Response** "Immediately contactyourstatehealthdepartmenttoassistyouinconfirmingthatanactof bioterrorismhasoccurred. Whoyoucontactinyourlocalityonceapreliminary investigationstronglysuggestsbioterrorismwilldependontheplanningactivitiesyou haveconductedinyourlocality. Keyindividualswillbelocalityadministrators, emergencyresponders, lawenforcement, clinicians, hospitals, etc. Pre-planningforthis eventualityiscrucial."
- 3. **FaxfromastatehealthdepartmenttoDr.Tilson-** Yousaidyouhadtolookup anthrax.Wheredidyoulook? **Response-** "Anytextbookofmedicineorinfectious diseases."
- 4. **FaxfromanemergencymedicaltechniciantoDrs.KoplanorLillibridge-** Isthisjust hypeorparanoia? **Response-** "OklahomaCity,theWorldTradeTowers,andrecent shootingshavetaughtusthatwearenotimmunefromterrorismonourownsoil.These violenttendencieshavealsobeenunsuccessfullydirectedattheuseofbiologicalagents asweaponsofterror,e.g.,750illpersonsinOregonfromdeliberatelycontaminatedfood. Therewillbefewexcusesifourpublichealthcommunitymissesthenarrowtime windowtoeffectivelyrespondtothedeliberateuseofbiologicalagents."
- 5. **FaxfromaschoolofpublichealthtoDr.Roper-** Whatdoyouseeastheroleof

- schoolsofpublichealthinbioterrorism? **Response-** "Providingatrainedworkforcefor effectivepublichealthsurveillanceandresponseactivitiestobioterrorismandbecoming centersofexcellencetoteachthesevitalskillstootherrespondersinthecommunity."
- 6. CallfromtheDelawareEmergencyManagementAgency(DEMA)- Whatrapid diagnosticsystemsarepresentlyavailableforidentifyingbacteriologicalagents?

  Response- "Manysystemsareindevelopment." AretheseavailablefromCDCor commercialsourcesforuseastrainingtools? Response- "No."
- 7. CallfromNewYorkStateDisasterResponseSystem? Response- "Yes."Shouldbioterrorismresponseeffortsbe
  connectedtotheNMDRS? Response- "Themedicalaspectsofresponsewillbe.
  However,thisfederalagencywillnotdothepublichealthworkneededinthecommunity
  ormakeplansforhowtodelivermasscareinanemergencyinyourspecific
  community."
- 8. **CallfromNorthCarolina-** Somepeoplethinkcartrailsareabioterrorismattack. How doweseparatetherealityfromtheperception? Peopledonotal waystrust the government. **Response-** "Consistent scientific information is crucial that is well supported by research."
- 9. **CallfromacountyhealthdepartmentinCalifornia-** Whatsystemexiststodeliver massivedosesofmedicineshouldatoxinbedispersedinanoxygenorwatersupplytoa largevulnerablepopulation? **Response-** "None.Buttheyarebeingdevelopedaspartof theNationalPharmaceuticalStockpile." Andwhopaysthecostforthemedication? **Response-** "Thefederalgovernmentpaysforthenationalstockpile."
- 10. **FaxfromamedicaldoctorinDenver,Colorado-** Ifabioterrorismeventshouldoccur, whoisresponsibleforevaluatingthephysicalenvironmenttodetermine:1)theextentof contaminationand2)areasthataresafeforworkersduringtheemergencyorsafetore-occupyaftertheimmediateevent?Also,whowillcollectthesesamplesandperformthe necessaryanalysesandpossibledecontamination? **Response-** "TheEPAhasthis responsibilityinconsultationwithotheragencies."
- 11. **CallfromalabadministratorinMaryland-** Howwillyoudeterminethatanoutbreak isduetobioterrorismoranaturaloccurrence?Doyouthinkthereisfalsesecurityin thinkingwearegoingtoreceiveaphonecalloraletteralertingustoanattack? **Response-** "ThereportofanattackistangentialtotheCDCBioterrorismprogram.We arepreparingforacovertattackthatwillneedcriticalepidemiologicalandlaboratory skillstoevaluate."
- 12. **FaxfromtheTexasDepartmentofHealth-** WillCDCofferany"handson"trainingto state/localhealthdepartmentsonhowtohandleandidentifybiologicalagents? **Response-** "Yes."Willlocalhealthdepartmentshaveaccesstoreagentsusedinrapid identificationtests,andifso,howaretheyobtained? **Response-** "Yes.Theywillstart tobecomeavailableinthenext8weeksthroughthenationalresponsenetworkfor

bioterrorism."

- 13. **FaxfromtheTexasDepartmentofHealth-** Istherean "800" number or other number at CDC available around-the-clock to assist health departments with consultations/technical assistance when dealing with possible bioterrorist events? **Response-** "Yes. 770-488-7100."
- 14. **CallfromCanton,Ohio-** RecalltheIndianapolisincident,whenthefirechiefhadthem isolatethearea.Ispreventingegressthereasonablethingtodosincekeepingpeople insidemaybeproblematiciftheyhavenotbeenexposed?Howwouldyoudealwith this? **Response-** "Itissituationspecific.Generally,controlledegressisappropriateas longasalistofallexposedindividualscanbemaintained."
- 15. **CallfromFlorida-** WhatistheroleofInfectionControlinthehospitalinrelationtoa bioterroristattack? **Response-** "Vital.Theyaretraditionallytheeyesandearsofpublic healthinahospitalsettingandmaybethefirsttorecognizeasuspiciousclusterofcases. Theyalsoarevitaltogiveaccurateinformationonthecontagiousnessofdiseases.
- 16. **CallfromaphysicianinTexas** WilltheHealthAlertNetwork(HAN)beconnectedto poisoncontrolcenters? **Response** "TheHealthAlertNetworkistheconnection.This connectionwillbefromlocalandstatehealthdepartmentstothosepartnerstheyintegrate intosurveillanceactivities."
- 17. **CallfromAlabama-** Inabioterrorismattack,ifsomeoneisusinganagentwithaslow, insidiousonset,peoplemaygotoapharmacyforhelpinsteadofadoctor.Shoulda partnershipbedevelopedwiththepharmacycommunitysothattheycanknowhowto identifythesecases? **Response-** "Thesepartnershipsarebeingdevelopedand evaluated."
- 18. CallfromtheTexasDepartmentofHealth- ItseemsthattheFBImighthave bioterroristinformationbeneficialtostateandlocalhealthdepartments.Whatstepsare beingtakentoinsurethattheFBIprovidestimelybioterroristinformationtohealth departments?Whatsecurityissuesregardingthisinformationmustbeaddressed? Response- "TheFBIisdevelopingguidelinestosharetimelyinformationonpotential bioterrorismwithlocalandstatehealthdepartments.Theyarecommittedtomitigating anydamageoverattemptstocaptureperpetrators."
- 19. **CallfromacountyhealthdepartmentinVAtoDr.Lillibridge-** Whatkindof relationshipisCDCdevelopingwithpharmaceuticalcompaniestobringthemintoa preparednessplan? **Response-** "CDCisworkingwithpharmaceuticalcompaniesto stockpiledrugsandmakevaccinesthroughcontracts."
- 20. **CallfromtheMarylandDepartmentofHealthandMentalHygiene-** Whatdoyou seeasthemajortrainingneedsoflocalhealthdepartmentpersonnelintheaccessof bioterrorismawareness,readiness,andresponse? **Response-** "Allareimportantand needtobetailoredtotheindividualneedinacommunity."

- 21. CallfromMinnesota- There are somany publichealth, publics a fety, medical, state, and local organizations involved. Has a hierarchy of command be enwritten at national or statelevels? Response- "Please see the Federal Response Plan." One can imagine in a large bioterror is mevent in New York or Los Angelos that Marshall Law might be imposed. Who is evaluating the legal and jurisdictional considerations? Response- "CDC is working with state and local health departments to evaluate publiche alth laws."
- 22. **CallfromRaleigh,NorthCarolina** Isthereawayforacommunitytoassesstheirrisk ofbeingatargetforbioterrorism? **Response** "Ifnottheexactrisk,thenatleastthe potentialtargetsandmagnitudeinconjunctionwithlocallawenforcementcanbe assessed."
- 23. **FaxfromDepartmentofHealthServicesinSacramento, California-** Oneofthemost importantaspectsinrespondingtobiological terrorism threats is the need for consistent facts he et son the threat organisms. These facts he et sarene ed ed both formedical and publiche althorofessionals as well as first responders and the public. In California these facts he et shave been developed by many different agencies and are often in consistent. Does CDC plantomake common facts he et savailable to assist responders and the public understand and respond to the sethreats? **Response-** "Yes."
- 24. **UnknownSource-** Poisoncontrolcentersofferpotentialsurveillancecapabilities.Is thereanythoughttowardpartneringwithpoisoncentersonthepartofCDC? **Response-** "Yes. Thisisoneofthemanynewpartnershipsthathastobeestablishedandthedata evaluated."
- 25. **UnknownSource-** WhatdoesCDCperceiveastheroleoftheprivatesector(primary care)? **Response-** "Theyarethesinglemostimportantkeytorecognizingbioterrorism inthecommunityandprovidingtheclinicalcaretosuspectcases."
- 26. **UnknownSource-** Doyouthinka"justintime"Internetbasedlearningnetworkanda wellpublishedphonenumber(e.g.,1-800-anthrax)areviablesolutions? **Response** "Thesearenotacompletesolutionbutasmallpartoftheoverallsolutionthatincludes prepositioneddiagnosticsandrapidresponseabilities."
- 27. **UnknownSource-** Haveyouestablishededucationalprogramsforpracticing physicians? **Response-** "Theseactivitiesareurgentlyneeded."